

6388

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RAW SEQUENCE LISTING

DATE: 06/22/2001

PATENT APPLICATION: US/09/809,524A

TIME: 10:42:35

Input Set : A:\6114N.txt

Output Set: N:\CRF3\06222001\I809524A.raw

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3 <110> APPLICANT: Lowery, David
5     Kennedy, Michael J
8 <120> TITLE OF INVENTION: Salmonella Vaccine Materials and Methods
11 <130> FILE REFERENCE: 28341/6114.N
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/809,524A
C--> 15 <141> CURRENT FILING DATE: 2001-03-15
17 <150> PRIOR APPLICATION NUMBER: 60/190,178
19 <151> PRIOR FILING DATE: 2000-03-17
21 <160> NUMBER OF SEQ ID NOS: 30
23 <170> SOFTWARE: PatentIn Ver. 2.0
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27 <211> LENGTH: 779
29 <212> TYPE: DNA
31 <213> ORGANISM: Salmonella dublin
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41 atgatgcata ttggtaaaga ttacagttgg ttagggttag tcaccggaga ggtgattatt 240
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47 gaaacctcac tttttggctt gcttttcagc cagtttttgt gtgttatttt ctttataagc 420
49 ggcggcatgg agtttatatt aaacattctg tatgagtc atcaatatt accaccagg 480
51 cgtactttat tatttgaccg gcaattttta aaatatatcc aggcagagtg gagaacgctt 540
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55 gcttttaggtc ttttaaatcg gtcggcaca caattgaatg tgtttttctt ctcaatgccg 660
57 ctcaaaagta tattggttct actgacgctc ctgatctcat tcccttatgc tcttcatcac 720
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66 <211> LENGTH: 779
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78 aatggcgtgc ttatgtcact tacctttccg atattaccaa tcatttacca gcagaagatt 180
80 atgatgcata ttggtaaaga ttacagttgg ttagggttag tcaactggaga ggtgattatt 240
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84 ctgcttgata ctttacgtgg cgcgacaatg ggtacgatat tcaattctac aatagaagct 360
86 gaaacctcac tttttggctt gcttttcagc cagttcttgt gtgttatttt ctttataagc 420
88 ggcggcatgg agtttatatt aaacattctg tatgagtc atcaatatt accaccagg 480
90 cgtactttat tatttgacca gcaattttta aaatatatcc aggcagagtg gagaacgctt 540
92 tatcaattat gtatcagctt ctctcttcc gccataatat gtatggtatt agccgatctg 600
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96 ctcaaaagta tattggttct actgacgctc ctgatctcat tcccttatgc tcttcatcac 720
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103 <211> LENGTH: 749

105 <212> TYPE: DNA

107 <213> ORGANISM: Salmonella dublin

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115 cagcatcata ttgatgcgga aaaaaaacag gaagaggacg gtgttacctt acgtgtcgag 180
117 cagtcgcagt ttattaatgc ggttgagcta cttagactta acggttatcc gcacgtcgag 240
119 ttacaacgg cggataagat gtttccggct aatcagttag tggatcacc ccaggaagaa 300
121 cagcagaaga ttaatttttt aaaagaacaa agaattgaag gagtgctgag tcagatggag 360
123 ggcgtgatta atgcaaaagt gaccattgag ctaccgactt atgatgaggg aagtaacgct 420
125 tctccgagct cagttgccgt atttataaaa tattcaccac aggtcaatat ggaggccttt 480
128 cgggtaaaaa ttaaggattt aatagagatg tcaatccctg ggttgcaata cagtaagatt 540
130 agtatcttga tgcagcctgc tgaattcaga atggtagctg acgtaccgcg gagacaaaca 600
132 ttctggatta tggacgttat caacgccaat aaaggggaagg tggagaagtg gttgatgaaa 660
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138 <210> SEQ ID NO: 4

140 <211> LENGTH: 749

142 <212> TYPE: DNA

144 <213> ORGANISM: Salmonella typhimurium

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152 cagcatcata ttgatgcgga aaaaaaacag gaagaggatg gtgtaacctt acgtgtcgag 180
154 cagtcgcagt ttattaatgc ggttgagcta cttagactta acggttatcc gcattaggcag 240
156 ttacaacgg cggataagat gtttccggct aatcagttag tggatcacc ccaggaagaa 300
158 cagcagaaga ttaatttttt aaaagaacaa agaattgaag gaatgctgag tcagatggag 360
160 ggcgtgatta atgcaaaagt gaccattgag ctaccgactt atgatgaggg aagtaacgct 420
162 tctccgagct cagttgccgt atttataaaa tattcacctc aggtcaatat ggaggccttt 480
164 cgggtaaaaa ttaagattt aatagagatg tcaatccctg ggttgcaata cagtaagatt 540
166 agtatcttga tgcagcctgc tgaattcaga atggtagctg acgtaccgcg gagacaaaca 600
168 ttctggatta tggacgttat caacgccaat aaaggggaagg tggagaagtg gttgatgaaa 660
170 tacccttata cgttgatgtt atcgttgaca ggactgttat taggagtggg catcctgac 720
172 ggctattttt gcctgagacg ccgtttttg 749

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174 <210> SEQ ID NO: 5

176 <211> LENGTH: 1052

178 <212> TYPE: DNA

180 <213> ORGANISM: Salmonella dublin

182 <400> SEQUENCE: 5

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186 gatgagttat catggaaagg taatgacttc accctttatg ccagacaaat gccattagca 120
188 gaggttttac atctgctctc agagaactat gatacggcta ttactattag cccattgata 180
190 acagctacat ttagtggaag aattccgcct ggaccaccgg tcgatatttt gaataacctg 240
191 gcagcacaat atgatttgct tacctggttt gatggcagca tggtatatgt atatcctgca 300
193 tcgttattaa aacatcagg taccactttc aatattttat ctactggacg gttcattcat 360
195 tacttacgca gccagaatat cctttcatca ccgggatgag aggttaaaga aattaccggt 420
197 accaaagctg tggaggtgag cgggtgtccc agctgcctga ctctgattag tcaattagct 480
199 tcagtgtctg ataatgcgtt aatcaaacga aaagacagtg cggtgagtgt aagtatatac 540

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201 acgcttaagt atgccactgc gatggatacc caataccaat atcgcgatca gtccgctcgtg 600
203 gttccagggg tcgtgagtgt attgctgag atgagtaaaa ccagcgtacc ggcgctcatcg 660
205 acgaacaatg gttcaccgcg tacacaggca ttgcccatgt ttgctgccga cccacgccag 720
207 aatgcagtga tcgttcgtga ttatgcggcc aatatggccg ggtatcggaa acttatcaca 780
209 gaattagatc aacgccagca gatgatagag atttcggtga aaattatcga tgtaaatgct 840
211 ggagatatta accagttagg catcgaactgg ggaacggcag tgcgctggg tggcaagaaa 900
213 attgcgttca atacagggtt gaatgacggg ggtgctagcg gttttttcaa cggtaatcag 960
215 cgataacctca aactttatgg tgcgtttgaa tgccctggaa aaaagctctc aggccttatgt 1020
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221 <211> LENGTH: 1052
223 <212> TYPE: DNA
225 <213> ORGANISM: Salmonella typhimurium
227 <400> SEQUENCE: 6
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231 gatgagttat catggaaagg taatgacttc accctttatg ccagacaaat gccattagca 120
233 gaggttttac atctgctctc agagaactat gatacggcta ttactattag cccattgata 180
235 acagctacat ttagtggaaa aattccgcct ggaccaccgg tcgatatttt gaataacctg 240
237 gcagcacaaat atgatttgct tacctggttt gatggcagca tgttatatgt atatcctgca 300
239 tcgttattaa aacatcagggt tatcactttc aatattttat ctactggacg gttcattcat 360
241 tacttacgca gccagaatat cctttcatca ccgggatgcg aggttaaaga aattaccggt 420
243 accaaagctg tggaggtgag cgggtgtccc agctgcctga ctcgattag tcaattagct 480
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266 <211> LENGTH: 368
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276 gctgaacggc ctttagcaac caatatgttc tggcggaag gacaatatga aacctatcta 120
278 aactatcata acggtcgtat tcaattatgt cagatactca agcaaaccct cttagacgaa 180
280 gaactgcttt ttaaagcggt ggctaactgg aaaccgcgag cgttccaggg tattcctcaa 240
282 cgattatttt tgttgcgca tgggcttgca atgagttgtt ctccacctct ttccagctcc 300
284 gccgagctct ggttacgatt acatcatcga caaataaaat ttctggagtc gcaatgcgtt 360
286 catggtta 368
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292 <212> TYPE: DNA
294 <213> ORGANISM: Artificial Sequence
296 <220> FEATURE:

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306 <211> LENGTH: 27
308 <212> TYPE: DNA
310 <213> ORGANISM: Artificial Sequence
312 <220> FEATURE:
314 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
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318 ttatcgctt tcaaccaa at agt gatg 27
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322 <211> LENGTH: 34
324 <212> TYPE: DNA
326 <213> ORGANISM: Artificial Sequence
328 <220> FEATURE:
330 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
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336 <210> SEQ ID NO: 11
338 <211> LENGTH: 49
340 <212> TYPE: DNA
342 <213> ORGANISM: Artificial Sequence
344 <220> FEATURE:
346 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
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358 <213> ORGANISM: Artificial Sequence
360 <220> FEATURE:
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372 <212> TYPE: DNA
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405 <213> ORGANISM: Artificial Sequence
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VERIFICATION SUMMARY

DATE: 06/22/2001

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L:13 M:270 C: Current Application Number differs, Replaced Application Number

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date